

Carol L. Bjelland Director Regulatory Matters October 16, 1997 GTE Service Corporation 1850 M Street, N.W., Suite 1200 Washington, D.C. 20036 (202) 463-5292

EX PARTE OR LATE FILED

Mr. William F. Caton Acting Secretary Federal Communications Commission 1919 M Street, N. W. Washington, D. C. 20554

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

EX PARTE: Cellular Service in the Gulf of Mexico

WT Docket No. 97-112 CC Docket No. 90-6

Dear Mr. Caton:

DOCKET FILE COPY ORIGINAL

This letter shall serve as notification that, on October 14, 1997, representatives of GTE Wireless met with the following Staff members from the Commercial Wireless Division of the Wireless Telecommunications Bureau: Wilbert Nixon; Linda Chang, Tim McGuire and Jay Jackson. The purpose of the meeting was to discuss in further detail many of the points raised by GTE in its Comments and Reply Comments filed in this proceeding. The attached materials were used in the course of the discussion. These materials reiterate and further illustrate GTE's position that its proposal to extend the licensed area of land-based cellular carriers into the Gulf of Mexico is the proposal that best serves the public interest.

Please include a copy of this notification, and the attached discussion materials, in the record of this proceeding in accordance with the Commission's rules concerning ex parte communications. Questions concerning this matter should be directed to the undersigned.

Sincerely,

Carol L. Bjelland

Attachment

CC: Participating FCC Staff Members

No. of Copies recid
List ASCDE



Cellular Service
In the Gulf of Mexico
WT Docket 97-112
CC Docket 90-6

DETRIMENTAL CUSTOMER IMPACT

- Poor Portable Coverage on the Beach Due to FCC Rules
 - >> 32 dBu contours do not provide adequate signal strength SEE EXHIBIT I
- Unauthorized Roaming
 - ➤ In Texas, the Gulf Carriers' signal on the beach dominates the Land-Based Carriers' signal in many places

SEE EXHIBIT II

 No Cellular Service provided by Gulf Carriers off the Coast of Florida Southeast of the Panhandle

OPTIONS TO PROVIDE RELIABLE SERVICE TO COASTAL CUSTOMERS

- 1) FCC auctions unserved area in Coastal Zone
- 2) Land-Based transmitters placed by Gulf Carrier
- 3) Land-Based Carriers' CGSAs are extended into the Gulf

COASTAL ZONE AUCTION OPTION

- Unserved area creates opportunity for third party to apply for and be awarded Coastal Zone
- Third carrier's contour would infringe on both Land-Based and Gulf Carrier markets
- Further reduction and/or elimination of already poor beach coverage
- Unserved area will still remain in Coastal Zone
- If the FCC requires Land-Based & Gulf Carriers to pull back SABs, all
 of the problems above would be heightened and GTE alone would be
 required to shut down at least 9 cell sites along the Texas coastline
 SEE EXHIBIT III

LAND-BASED TRANSMITTER OPTION

 Land-Based transmitters placed by Gulf Carriers would capture Land-Based Carriers' subscriber traffic

Collocation

On Land-Based Carriers' existing towers, would still capture Land-Based Carriers' subscribers

SEE EXHIBIT IV

- On piers, would require Land-Based Carriers to design their networks according to Gulf Carriers' plans
- Would substantially increase Land-Based Carriers' capital requirements

EXTENDING LAND-BASED CGSA OPTION

 FCC should extend licensed area of cellular Land-Based Carriers 25 miles into the Gulf, 50 miles in Florida

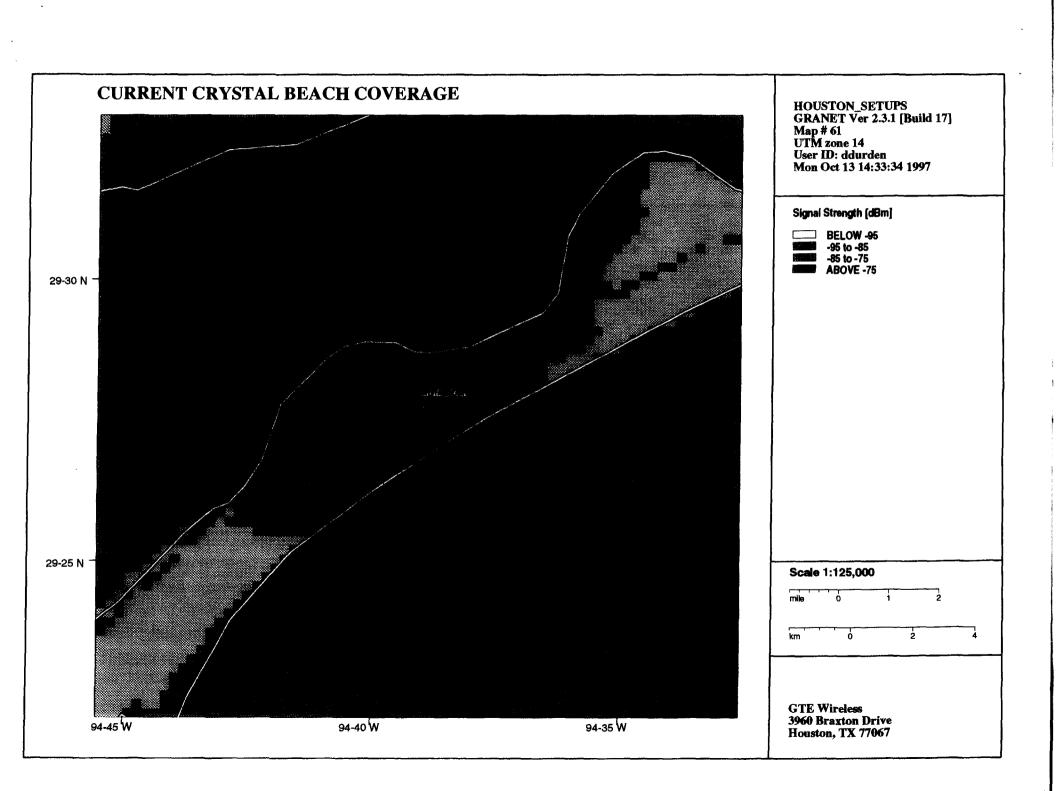
SEE EXHIBIT V

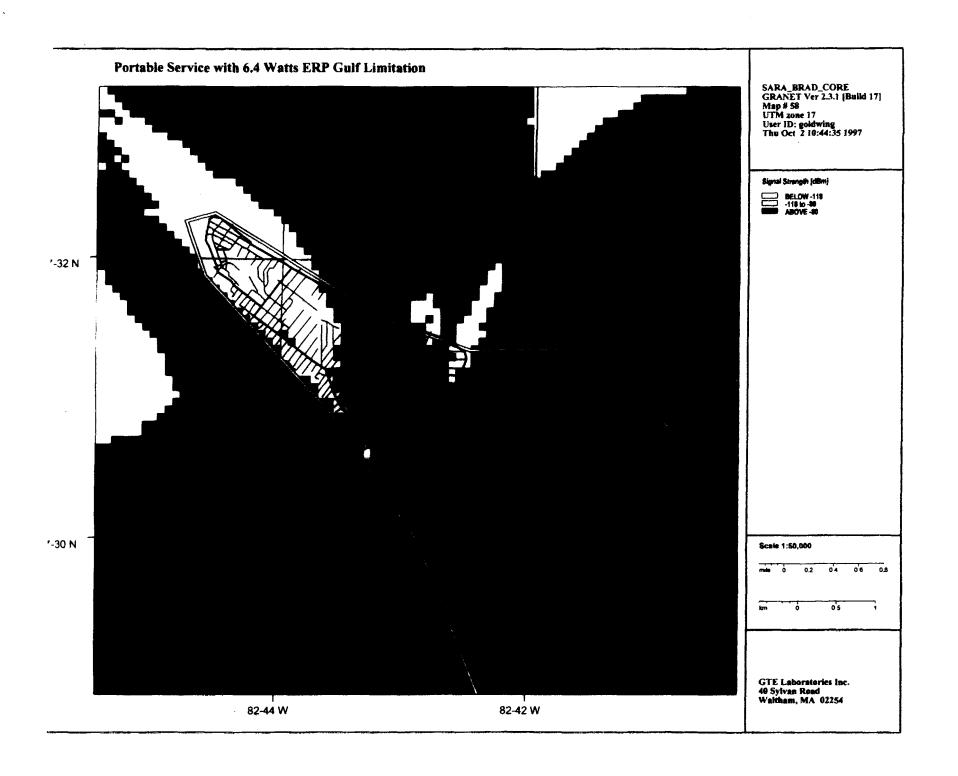
- The only proposal that is in the public interest:
 - Promotes reliable portable coverage on the beach and coastal waters

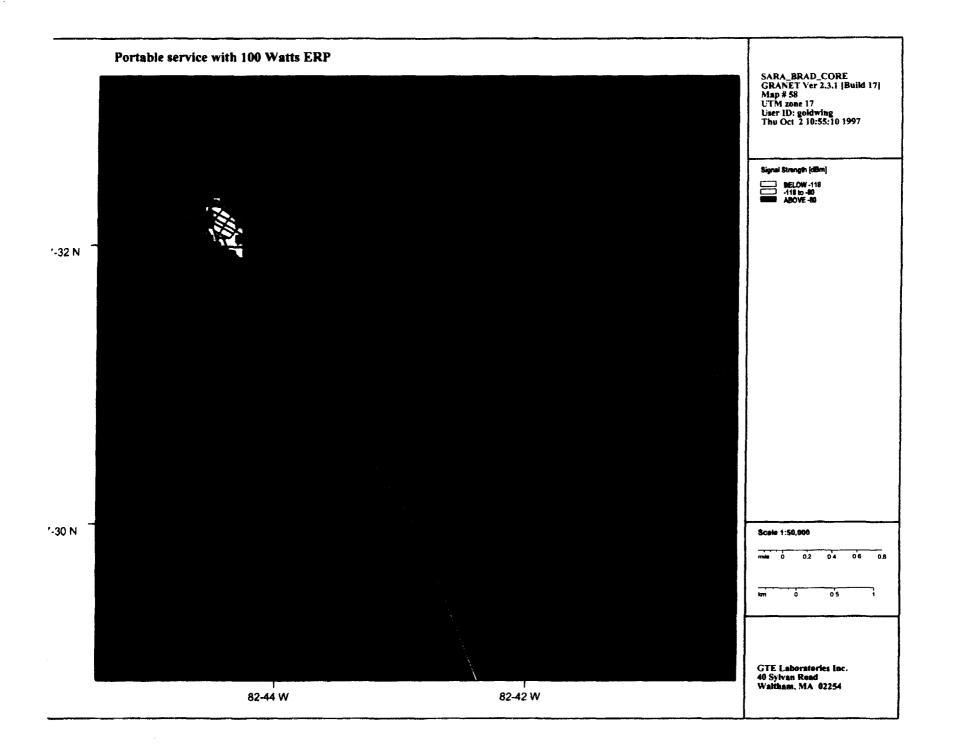
SEE EXHIBIT VI

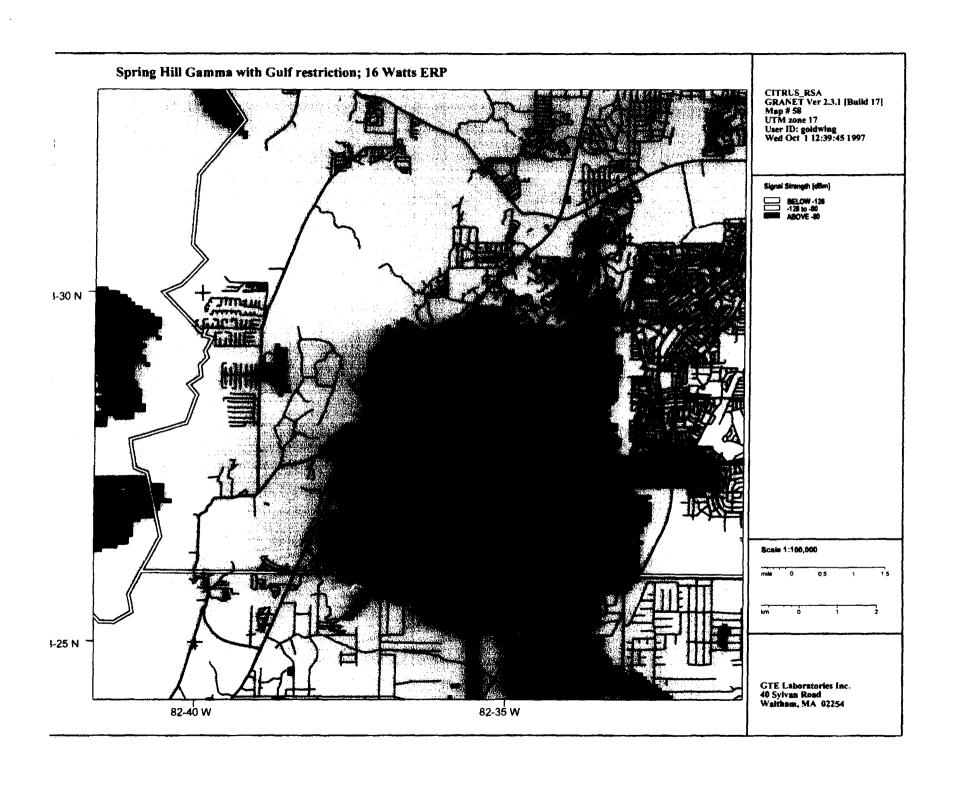
- > Reflects logical community of interest
- Provides public safety immediately
- > Enhances competition with PCS carriers
- >> PCS Carriers' signals extend into the Gulf and Land-Based Carriers cannot compete with PCS along the coastline

EXHIBIT I









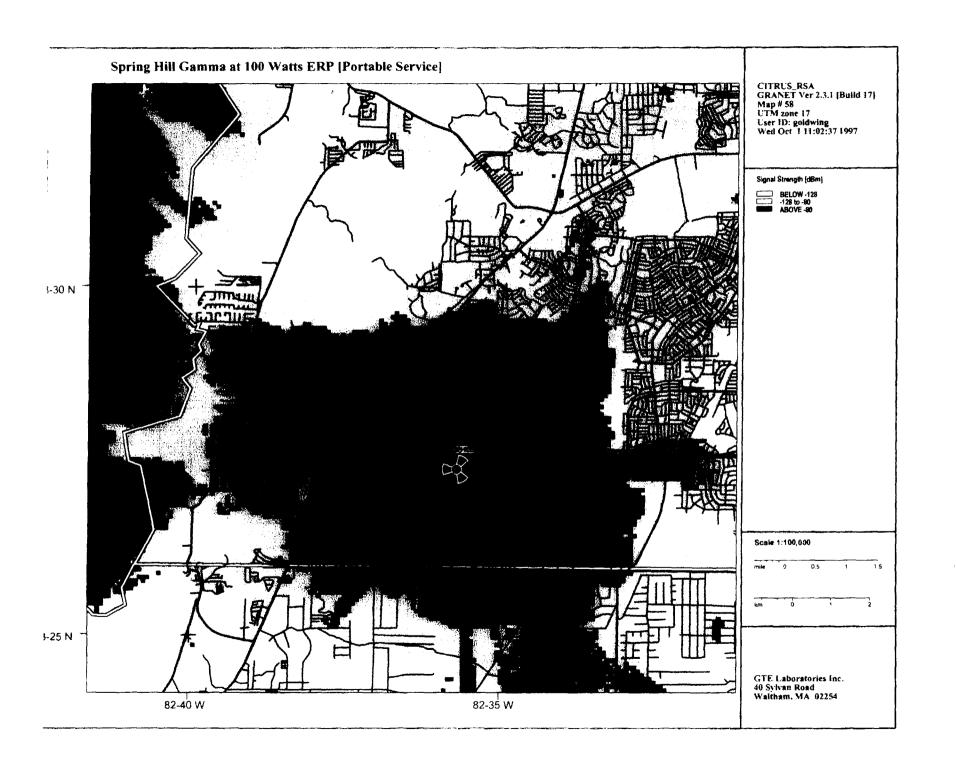
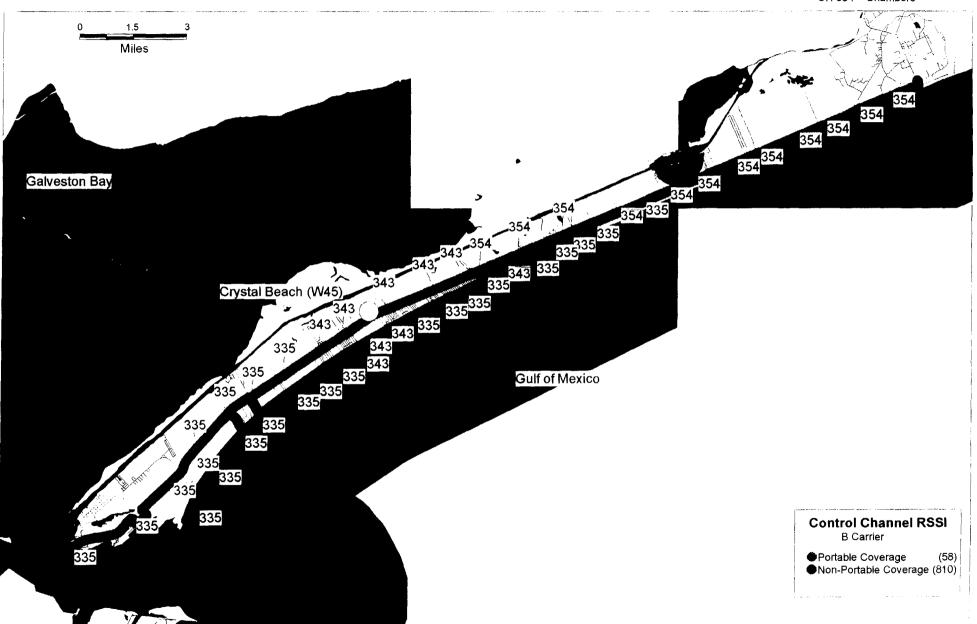


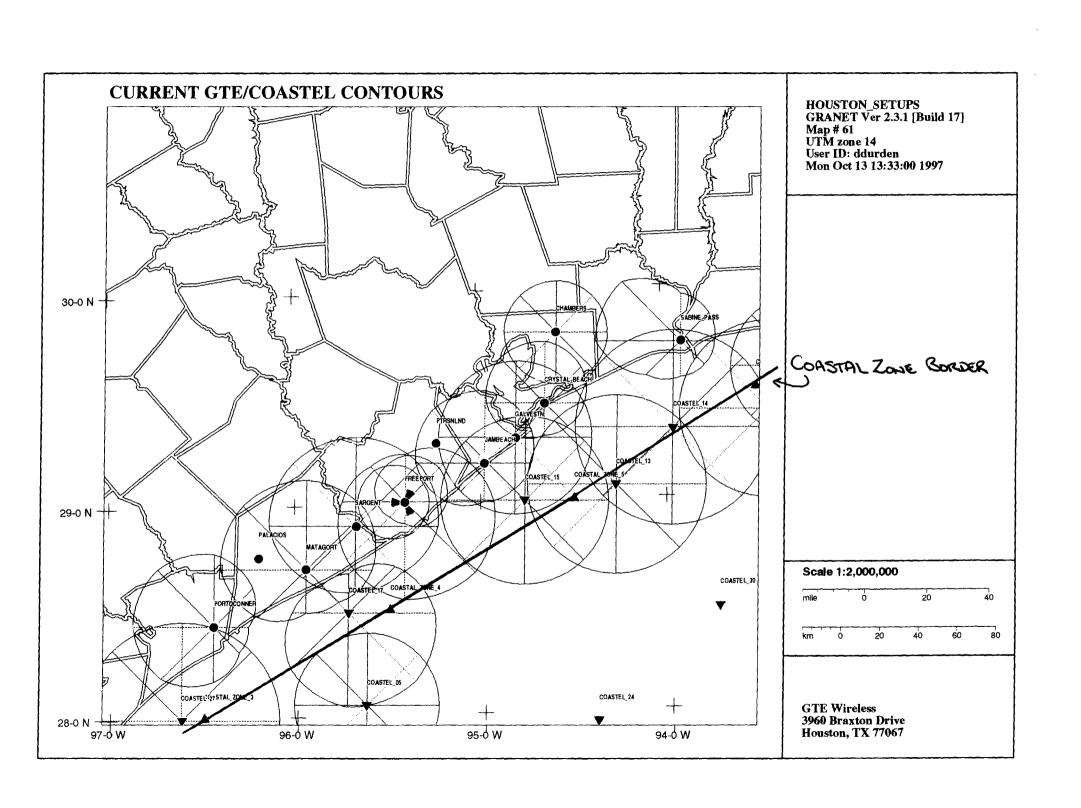
EXHIBIT II

CH 354 = Chambers



Crystal Beach Drive Data 10/8/97

EXHIBIT III



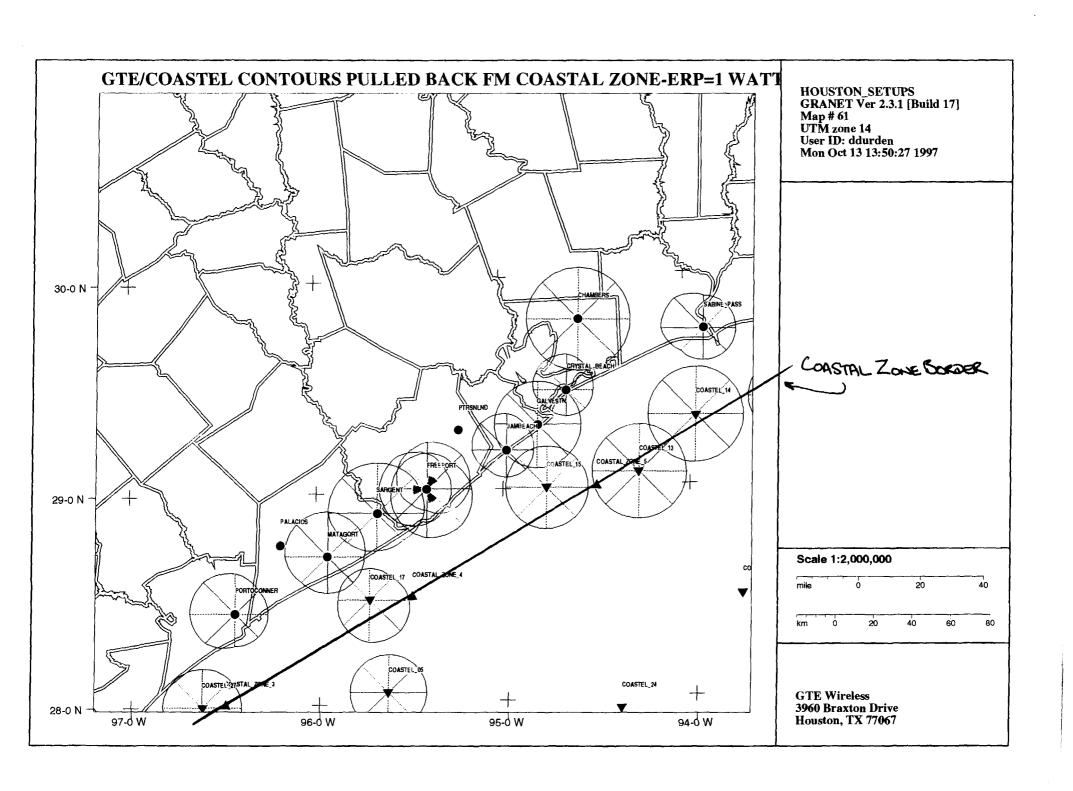
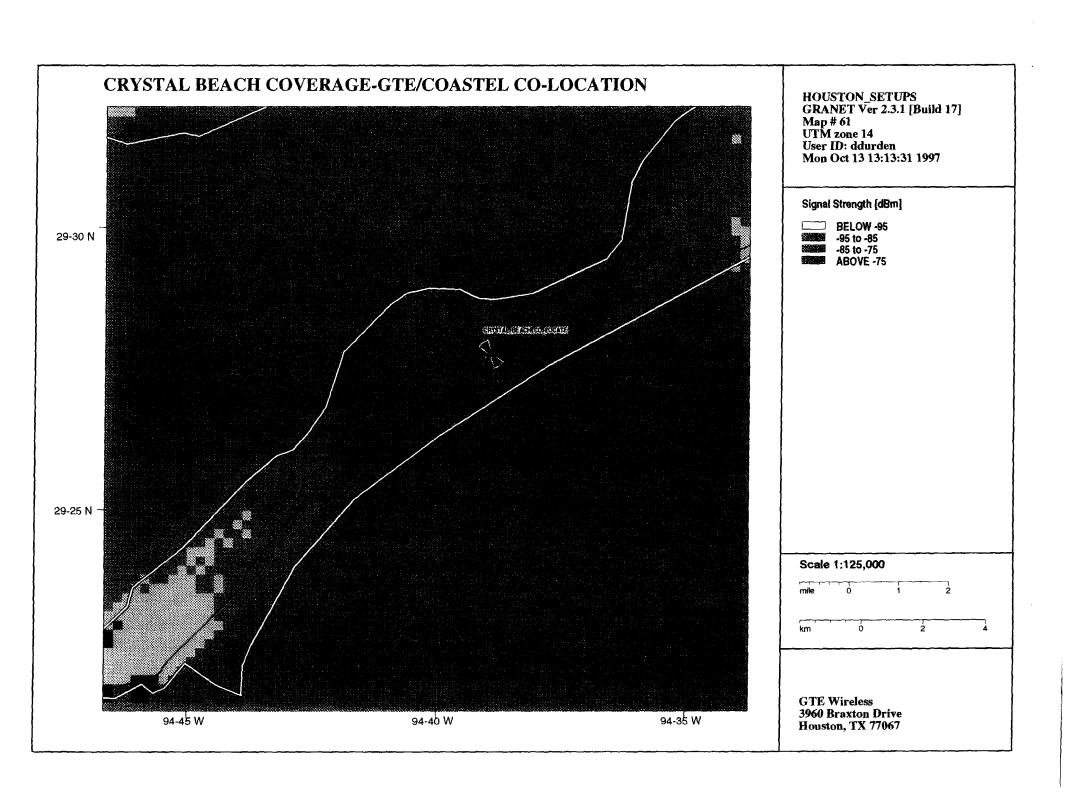


EXHIBIT IV



CRYSTAL BEACH BEST SERVER COVERAGE-GTE/COASTEL HOUSTON_SETUPS GRANET Ver 2.3.1 [Build 17] Map # 61 UTM zone 14 User ID: ddurden Mon Oct 13 13:17:28 1997 Sector/Site 1 CRYSTAL_BEACH_CO_LOCATE 2 CRYSTAL_BEACH_CO_LOCATE 29-30 N Wells Island 29-25 N ~ Scale 1:125,000 **GTE Wireless** 3960 Braxton Drive 24 4F 7N 94-40 W 94-35 W Houston, TX 77067

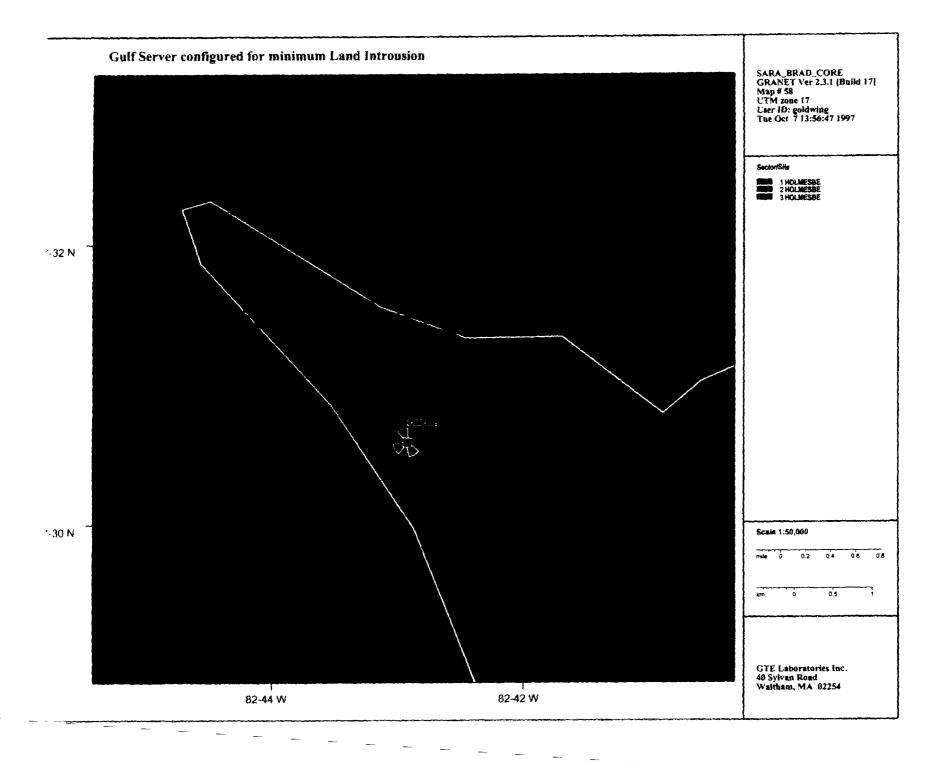


EXHIBIT V

EXHIBIT V

Path Balance

	Cell	Portable
ERP	+50 dBm 100 Watts	+27 dBm 0.5 Watts
12 dB	100 11 400	0.5 17 40.0
SINAD	-120 dBm	-116 dBm
Antenna Gain	+15 dBd	0 dBd
Diversity Gain	+6 dB	0 dB
Line Loss	-2 dB	0 dB

Allowable Path Loss for useable call at 22 dB SINAD:

Portable to cell: +27+120+15+-2+6-10(10 dB above threshold)=156 dB

Cell to Portable: +50-116+0+0+0-10(10 dB above threshold)=156 dB

Path is balanced at 100 watts base station ERP with portable phones.

Path Balance

	Cell	3 Watt Mobile
ERP	+57 dBm	+35 dBm
	500 Watts	3 Watts
12 dB		
SINAD	-120 dBm	-116 dBm
Antenna Gain	+15 dBd	+3 dBd
Diversity Gain	+6 dB	0 dB
Line Loss	-2 dB	-3 dB

Allowable Path Loss for useable call at 22 dB SINAD:

Mobile to cell: +35+120+15+-2+6-10(10 dB above threshold)=164 dB

Cell to Portable: +57-116+0+0+0-10(10 dB above threshold)=163 dB

Path is balanced within 1 dB at 500 watts base station ERP with mobile phones.

Therefore: If the Gulf Water Contour from the cell shows 40 miles the talkback to the base station will be one decibel better than the talk out at 500 watts base ERP.